



FortiExtender™ -20B, 100B and 100A-VZW 3G/4G Wireless WAN Extenders



Improve Business Continuity with a 3G/4G Backup WAN Connection

A reliable WAN connection is essential for the modern enterprise. With businesses increasingly relying on cloud computing and remote applications, WAN connectivity must be always-on and downtime caused by an unreliable connection to the WAN is costly. Ideal for the distributed enterprise, retail location and SMB, FortiExtender 3G/4G Wireless WAN Extenders work in conjunction with the FortiGate Network Security Platform to provide a 3G/4G WAN connection as a backup to the primary wired WAN link. The advanced FortiOS software on the FortiGate facilitates rapid failover from the wired connection to the FortiExtender 3G/4G Wireless WAN connection in the event of a wired failure, ensuring the enterprise location stays online and operational.

3G/4G Wireless WAN as a Primary WAN Connection

3G/4G are the latest high-speed wireless WAN technologies. Modern enterprises are increasingly taking advantage of these technologies not only as a backup for their wired WAN connections, but also as the primary WAN connection in locations such as; small branch offices, retail Point of Sale and kiosks. A FortiExtender 3G/4G Wireless WAN Extender enables a reliable and stable connection to support these applications.

Superior Management, Security and Control

FortiExtenders are true plug-and-play devices. Once connected to the FortiGate, they appear as a regular network interface in FortiOS, providing single pane of glass management. This enables administrators to manage the connection as well as implement complete UTM security and control, just like any other FortiGate interface. In addition, FortiOS will display data quota usage on the Wireless WAN interface, providing complete visibility of the connection to ensure costly carrier data limits are not exceeded. The superior management, security and control of the FortiExtender ultimately reduces the Total Cost of Ownership for your WAN.

3G/4G Wireless WAN connection for Distributed Enterprise, Branch Office, Retail and SMB.

- Enables placement of 3G/4G Wireless modem outdoors or close to a window, improving signal strength
- Provides a secondary failover WAN link to improve business continuity
- Provides a primary WAN link for retail POS, remote ATM machines and remote kiosk-type systems
- Reduces WAN TCO through single pane of glass management integration with the FortiGate Network Security Platform
- Data usage management and alerts to monitor data usage and avoid overcharges
- PoE powered

Key Features and Benefits

| | |
|---|--|
| Integrates into the FortiGate Network Security Platform | Single pane of glass management of the wired and wireless WAN connections and security reduces Total Cost of Ownership for your WAN. |
| Designed for Outdoor Use | Can be located to maximize 3G/4G signal strength, without using lossy antenna cables or limited strength USB modem. |
| Power over Ethernet | Can be located up to 100m from the FortiGate appliance or network switch, to optimize wireless signal strength. |
| Enterprise Performance | 3G/4G Wireless WAN is the latest high-speed wireless WAN technology, significantly outperforming legacy redundant WAN connections such as dial-up. |



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Flexible Deployment for Optimal Signal Strength

FortiExtender devices have been engineered to be installed in the best possible location to achieve maximum 3G/4G wireless signal strength. The unit is powered using Power over Ethernet with both indoor and outdoor models available, enabling the

device to be located for optimal signal strength, even up to 100m away from the FortiGate or Network Switch. The choice between indoor or outdoor models provides deployment flexibility based on the specific signal strength requirements for each location.

FortiGate

Help Wizard Logout **FORTINET**

System

- Dashboard
- FortiView
- Network
 - Interfaces
 - DNS
 - FortiExtender**
- Config
- Admin
- Certificates
- Monitor

Router

- Policy & Objects
- Security Profiles
- VPN
- User & Device
- WAN Opt. & Cache
- WiFi & Switch Controller
- Log & Report

FortiExtender Configuration

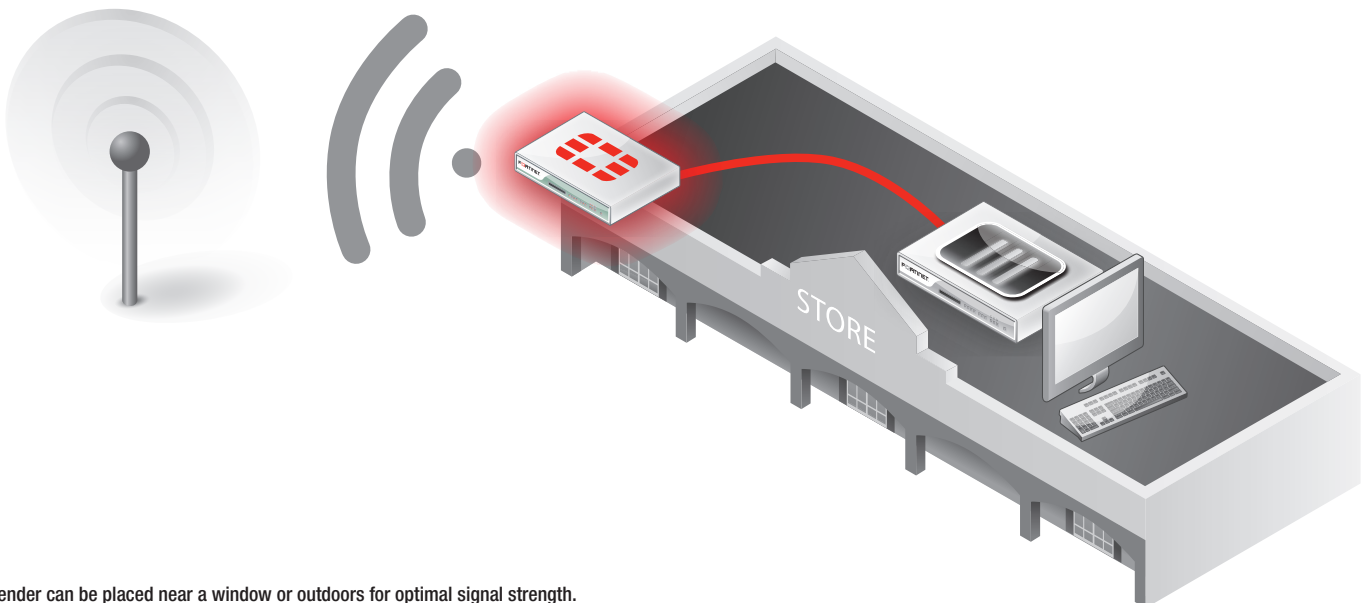
| Primary | | Secondary [Make Primary] | |
|-----------------------|--------------------------------|--------------------------|--------------------------------|
| Serial Number | FX100A3X13000023 | Serial Number | FX100B3X13000063 |
| Model | FX100A | Model | FX100B |
| Administrative Status | Authorized [Deauthorize] | Administrative Status | Authorized [Deauthorize] |
| Link Status | Up [Details] | Link Status | Up [Details] |
| MAC Address | 00:00:00:00:00:00 | MAC Address | 8:5b:e:4a:b4:8 |
| IP Address | 192.168.100.126 | IP Address | 192.168.100.110 |
| OS Version | FX100A-v1.0-build001 [Upgrade] | OS Version | FX100B-v1.0-build001 [Upgrade] |
| Network | Verizon LTE | Network | LTE |

Data Usage

| Current Usage | Last Month Usage |
|-----------------------------|------------------------|
| 95.21 MB of 4.88 GB (1.90%) | 0 B of 4.88 GB (0.00%) |

Configure Settings Diagnostics

FortiOS Web-based GUI — complete FortiExtender visibility and control.



FortiExtender can be placed near a window or outdoors for optimal signal strength.

SPECIFICATIONS

| | FORTIEXTENDER-20B | FORTIEXTENDER-100B | FORTIEXTENDER-100A-VZW |
|-----------------------------------|---|---|---|
| Hardware and System | | | |
| Modem Support | USB | USB | Internal |
| Power over Ethernet (PoE) Powered | IEEE 802.3af (9.5) | IEEE 802.3af (7.3W) | IEEE 802.3af (8W) |
| Mounting Options | Wall mount | Pole and wall mount | Pole and wall mount |
| Ingress Protection Rating | N/A | IP55 | IP55 |
| Dimensions | | | |
| Height x Width x Length (in) | 1 x 3.8 x 4.9 | 5.7 x 10.6 x 1.9 | 4.92 x 8.98 x 2.64 |
| Height x Width x Length (mm) | 25 x 97 x 124 | 145 x 268 x 48 | 125 x 228 x 67 |
| Weight | 0.7 lb (0.3 kg) | 1 lb (454 g) | 0.99 lb (0.45 kg) |
| Environment | | | |
| Operating Temperature | 23–122°F (-5–50°C) | 32–131°F (0–55°C) | -22–140°F (-30–60°C) |
| Storage Temperature | -4–158°F (-20–70°C) | -4–158°F (-20–70°C) | -31–176°F (-35–80°C) |
| Humidity | 5–95% | 5–95% | 0–95% |
| Certifications | | | |
| CB | IEC 60950-1:2005 | IEC 60950-1:2005 | IEC 60950-1:2005 |
| UL | UL 60950-1, CSA C22.2 No. 60950-1-07 | UL 60950-1, CSA C22.2 No. 60950-1-07 | UL 60950-1, CSA C22.2 No. 60950-1-07 |
| FCC | FCC Part 15, Class B and Subpart C and EICES-003 | FCC Part 15, Class B and Subpart C and EICES-003 | FCC Part 15, Class B and Subpart C and EICES-003 |
| CE | RR&TTE Directive 1999 / 5 / EC EN 300 328 / EN 301 489 / EN 301 893 / EN 50385 EU Directive 2004 / 108 / EC EMC EU Directive 2006 /95 / EC LVD EN 55022 / EN 55024 / EN 61000 | RR&TTE Directive 1999 / 5 / EC EN 300 328 / EN 301 489 / EN 301 893 / EN 50385 EU Directive 2004 / 108 / EC EMC EU Directive 2006 /95 / EC LVD EN 55022 / EN 55024 / EN 61000 | RR&TTE Directive 1999 / 5 / EC EN 300 328 / EN 301 489 / EN 301 893 / EN 50385 EU Directive 2004 / 108 / EC EMC EU Directive 2006 /95 / EC LVD EN 55022 / EN 55024 / EN 61000 |
| IC | Canada RSS-210 Issue 7 / Canada RSS-Gen Issue 2 RSS102, Issue 4 | Canada RSS-210 Issue 7 / Canada RSS-Gen Issue 2 RSS102, Issue 4 | Canada RSS-210 Issue 7 / Canada RSS-Gen Issue 2 RSS102, Issue 4 |
| Directives | Low Voltage Directive • RoHS | Low Voltage Directive • RoHS | Low Voltage Directive • RoHS |

SUPPORTED USB MODEMS

| FORTIEXTENDER-20B AND 100B | | |
|----------------------------|---------|------------------|
| ISP | Modem | Brand |
| AT&T | AC340U | Netgear (Sierra) |
| AT&T | AC313U | Netgear (Sierra) |
| Bell | U679 | Novatel |
| Rogers | AC313U | Netgear (Sierra) |
| Sprint | AC341U | Netgear (Sierra) |
| Telstra | AC320U | Netgear (Sierra) |
| Verizon | UML 295 | Pantec |
| Verizon | USB551L | Novatel |

Please see release notes for a complete list of supported modems.

INTERNAL MODEM CAPABILITIES

| FORTIEXTENDER-100A-VZW | |
|---------------------------|---|
| Internal Modem Bands | LTE AWS, 700 MHz (B17) (with MIMO) HSPA+/UMTS 850/AWS/1900/2100 MHz GPRS 850/900/1800/1900 MHz Certified for use on Verizon Network |
| Advanced Radio Technology | 2x2 MIMO — Enables industry leading data speeds Receiver Equalization — Improves performance in noisy and highly mobile environments Receiver Diversity — Improves performance at cell edges and in buildings |
| Features | Connection Status Auto-Connect Auto-Select Network Data byte count Network Profile Self-Diagnostics Power Management — Standby & hibernate selective suspend DIAG & AT Commands IMEI located on outer box and device for simple activation by Verizon Private IP SIM support |

ORDER INFORMATION

| Product | SKU | Description |
|------------------------|-----------------------|--|
| FortiExtender-20B | FEX-20B | Indoor Broadband Wireless WAN Extender for use with USB modems. 1x GE RJ45 and 1x USB port for 3G/4G modem (not supplied). |
| | FC-10-X0020-311-02-DD | 8x5 FortiCare Contract |
| | FC-10-X0020-247-02-DD | 24x7 FortiCare Contract |
| FortiExtender-100B | FEX-100B | Outdoor Broadband Wireless WAN Extender for use with USB modems. 1x GE RJ45 and 1x USB port for 3G/4G modem (not supplied). PoE powered with included injector. |
| | FC-10-X0100-311-02-DD | 8x5 FortiCare Contract |
| | FC-10-X0100-247-02-DD | 24x7 FortiCare Contract |
| FortiExtender-100A-VZW | FEX-100A-VZW | Outdoor Broadband Wireless WAN Extender with built-in 3G/4G modem for Verizon Wireless Networks. 1x FE RJ45 port. |
| | FC-10-X0101-311-02-DD | 8x5 FortiCare Contract |
| | FC-10-X0101-247-02-DD | 24x7 FortiCare Contract |

Note: FortiExtender requires a FortiGate running FortiOS 5.2 or above to serve as its controller.



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